

## NSLS OHSAS Job Risk Assessment

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<b>Name(s) of Risk Team Members:</b> M. Caruso, W. DeBoer, C. Foerster, N. Gmur, C. Lanni	<b>Point Value → Parameter ↓</b>	1	2	3	4	5
<b>Job Title:</b> <span style="color: blue;">Resistive heating for vacuum bake out</span>  <b>Job Number or Job Identifier:</b> <span style="color: blue;">LS-JRA-0007</span>	<b>Frequency (B)</b>	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
<b>Job Description:</b> Resistive heating using heating tapes or cal rods	<b>Severity (C)</b>	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
Training and Procedure List (Optional):	<b>Likelihood (D)</b>	Extremely Unlikely <<1x/20yrs	Unlikely 1x/10-20yrs	Possible >1x/10-20yrs	Probable 1x/yr	Multiple >1x/yr
Approved by: W. R. Casey    Date: 8/12/2005 Rev. # 1 <a href="#">Revision Log</a>	<b>Stressors (if applicable, please list all):</b>		<b>Reason for Revision (if applicable):</b>		<b>Comments:</b>	

		Before Controls							After Initial Controls						After Additional Controls					
Job Step / Task	Hazard	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Initial Controls	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
Perform LockOut/ TagOut	See LS-JRA-0005 for perform Lockout/Tagout																			

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		Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD		# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD		# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
Work with vacuum systems	See <b>LS-JRA-0008</b> for work with vacuum systems																			
Electrical work in range B in an energized state	See <b>LS-JRA-0003</b> for troubleshooting energized electrical equipment in range B																			
Use of Portable Ladders	See <b>LS-JRA-0036</b> for use of portable ladders																			
Heating components with cal rods or heater tapes	Contact with temperature extremes (Burns)	N	1	3	2	4	24	Heating blankets and/or foil covering heating elements, heat tape is in good condition, use of Variac to control voltage & temperature, use of proper 2- or 3-prong plugs dependent on heating element, training, proper labeling, PPE, administrative controls such as preventing access.	1	3	2	3	18							

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Heating components with cal rods or heater tapes	Skin irritation and breathing dust from white fiberglass tape.	N	1	3	1	4	12	Heat tape is in good condition, substitute with heating blanket if cost and configuration allow, avoid contact with skin if possible, mask and or sleeves (as appropriate), wash down after use.	1	3	1	4	12	Substitute damaged white heating tapes with new, brown Hotfoil Inc. tapes	1	3	1	4	12	0
Further Description of Controls Added to Reduce Risk:																				
*Risk:	0 to 20 Negligible	21 to 40 Acceptable						41 to 60 Moderate			61 to 80 Substantial			81 or greater Intolerable						